ZCZC ARBCLADTW ALL TTAA00 KARB 181841

CLIMATE REPORT NATIONAL WEATHER SERVICE DETROIT/PONTIAC MI 119 PM EST SAT FEB 18 2012

.........

... THE DETROIT CLIMATE SUMMARY FOR THE YEAR OF 2011...

CLIMATE NORMAL PERIOD 1981 TO 2010 CLIMATE RECORD PERIOD 1874 TO 2012

WEATHER	OBSERVE VALUE	D DATE(S)	NORMAL VALUE	
TEMPERATURE (F)	• • • • • • • •			• • • • • • •
HIGH		07/24/193		
LOW		01/21/198	4	
HIGHEST		07/21	MM	MM
LOWEST		02/10	MM	MM
AVG. MAXIMUM AVG. MINIMUM	59.5 42.8		59.0 41.8	0.5 1.0
MEAN	42.8 51.1		50.4	0.7
DAYS MAX >= 90			10.2	
DAYS MAX <= 32	49		41.3	7.7
DAYS MIN <= 32	-		115.4	-3.4
DAYS MIN <= 0	2		3.5	
PRECIPITATION (RECORD	INCHES)			
MAXIMUM	MM	MM		
MINIMUM	MM	MM		
TOTALS	47.70R		33.47	
DAILY AVG.	0.13		0.09	0.04
DAYS >= .01	164		134.5	29.5
DAYS >= .10	89		73.3	
DAYS >= .50	32		20.9	
DAYS >= 1.00	9		5.6	3.4
GREATEST 24 HR. TOTAL	3.51	MM		
STORM TOTAL	MM	IAIIAI		
(MM/DD(HH))	141141	MM		
SNOWFALL (INCHE RECORDS	S)			
TOTAL 24 HR TOTAL	MM MM	5		
TOTALS	66.1		42.7	23.4
LIQUID EQUIV			MM	MM
SINCE 7/1	6.3		11.2	-4.9

LIQUID 7/1 DAYS >= TRACE DAYS >= 1.0 GREATEST SNOW DEPTH 24 HR TOTAL STORM TOTAL (MM/DD(HH))	71 17 16 8.2 MM			34.6 3.7		
DEGREE_DAYS HEATING TOTAL SINCE 7/1 COOLING TOTAL SINCE 1/1	5976 MM 1060		2297 803	-160 MM 257 257		
FREEZE DATES RECORD EARLIEST N LATEST N EARLIEST LATEST	MM MM		MM MM			
WIND (MPH) AVERAGE WIND SE HIGHEST WIND SE HIGHEST GUST SE	PEED/DIRE					
SKY COVER POSSIBLE SUNSHI AVERAGE SKY COV NUMBER OF DAYS NUMBER OF DAYS NUMBER OF DAYS	/ER FAIR PC	0.7	70 40 36			
AVERAGE RH (PER	RCENT)	70				
WEATHER CONDITITHUNDERSTORM HEAVY RAIN LIGHT RAIN LT FREEZING RAIHEAVY SNOW LIGHT SNOW FOG HAZE		MBER OF I 0 42 150 11 6 63 231 155	DAYS WITH MIXED PRE RAIN FREEZING HAIL SNOW SLEET FOG W/VIS	RAIN	1 MILE	2 80 1 1 21 11

⁻ INDICATES NEGATIVE NUMBERS.

R INDICATES RECORD WAS SET OR TIED.

MM INDICATES DATA IS MISSING.

T INDICATES TRACE AMOUNT.

	CLIMATOLOGICAL	STATISTICS	FOR	THE	NWS	WHITE	LAKE	_	THE	YEAR	OF	201
--	----------------	------------	-----	-----	-----	-------	------	---	-----	------	----	-----

TEMPERATURE DATA AVERAGE MAXIMUM 58.1 AVERAGE MINIMUM 39.2 MONTHLY AVERAGE 48.6	PRECIPITATION DATA 2011 ANNUAL TOTAL42.53 GREATEST MONTHLY TOTAL7.72 IN MAY GREATEST DAILY TOTAL2.84 ON JULY 28TH
HEATING DEGREE DAYS 2011 ANNUAL TOTAL2339	SNOWFALL DATA 2011 ANNUAL TOTAL76.4 GREATEST MONTHLY TOTAL24.3
COOLING DEGREE DAYS 2011 ANNUAL TOTAL610	IN FEBRUARY GREATEST DAILY TOTAL6.7 ON FEBRUARY 20TH

...2011 A YEAR FOR THE RECORD BOOKS IN SOUTHEAST MICHIGAN....

WITH 14 BILLION DOLLAR WEATHER DISASTERS, 2011 WILL BE REMEMBERED AS A YEAR OF EXTREMES FOR THE UNITED STATES. SOUTHEAST MICHIGAN WAS NO EXCEPTION TO THE EXTREME TRENDS OF 2011.

AFTER A PROLONGED COLD AND WET SPRING, THE 2ND HALF OF THE YEAR BEGAN WITH SURGING TEMPERATURES AND THE HOTTEST MONTH EVER RECORDED IN DETROIT. ABOVE NORMAL TEMPERATURES GENERALLY PERSISTED THROUGH THE REMAINDER OF THE YEAR, WITH NOVEMBER ALSO FINISHING MUCH ABOVE NORMAL (5TH WARMEST ON RECORD). ALTHOUGH THE YEAR TIED WITH FOUR OTHER YEARS FOR THE 19TH WARMEST ON RECORD, THE 2ND HALF OF THE YEAR (JULY 1ST THROUGH DECEMBER 31ST) HAD AN AVERAGE TEMPERATURE OF 58.9 DEGREES (3RD WARMEST) BEHIND 1881 AND 1931. IN FLINT AND THE TRI-CITIES, JULY, NOVEMBER, AND DECEMBER ALL RANKED AMONG THE TOP 10 WARMEST FOR EACH MONTH.

IT COULD BE EASILY ARGUED THAT WARMTH WAS NOT THE BIGGEST STORY OF THE YEAR AS A MEMORABLE WINTER TRANSITIONED TO A RECORD-BREAKING SPRING, ONLY TO BE FOLLOWED BY A RECORD-BREAKING AUTUMN FOR DETROIT. THE VERY ACTIVE END TO WINTER GAVE BOTH THE FLINT AREA AND THE TRI-CITIES THEIR SNOWIEST MONTH ON RECORD (FEBRUARY), AS WELL AS DETROIT'S 2ND SNOWIEST FEBRUARY. AS TEMPERATURES WARMED AND WINTER TURNED TO SPRING, FLINT AND DETROIT RECORDED THEIR WETTEST AND 2ND WETTEST SPRINGS ON RECORD, WHILE THE TRI-CITIES EXPERIENCED THEIR 10TH WETTEST. WHILE NEITHER FLINT NOR THE TRI-CITIES FINISHED INSIDE THE TOP 10 FOR WETTEST AUTUMN SEASONS, DETROIT STILL MANAGED TO RECORD ITS WETTEST FALL ON RECORD. BY THE END OF 2011, DETROIT HAD SEEN ITS WETTEST YEAR ON RECORD, FLINT HAD SEEN ITS 4TH WETTEST, AND THE TRI-CITIES SAW THEIR HIGHEST JANUARY-TO-DECEMBER SNOWFALL TOTAL IN THE HISTORICAL RECORD.

THE TOTAL PRECIPITATION FOR THE DETROIT AREA IN 2011 WAS 47.70", AN ALL-TIME RECORD (PREVIOUSLY 47.69 IN 1880), AND 14.23" ABOVE THE 33.47" ANNUAL AVERAGE. THAT INCLUDED 66.1 INCHES OF SNOW, THE 8TH

HIGHEST ANNUAL TOTAL IN THE HISTORICAL RECORD (CURRENT RECORD, 77.2" IN 2008), AND 23.4" ABOVE THE 42.7" CALENDAR YEAR AVERAGE. THE AVERAGE HIGH TEMPERATURE FOR THE YEAR WAS 59.6, +0.5 DEGREES ABOVE THE NORMAL VALUE OF 59.0 AND TIED FOR THE 22ND WARMEST ON RECORD. THE AVERAGE LOW FOR THE YEAR WAS 42.8, +1.0 DEGREES ABOVE THE 41.8 NORMAL AND TIED FOR THE 13TH WARMEST ON RECORD. THE AVERAGE OVERALL TEMPERATURE WAS 51.1, A DEPARTURE OF +0.7 DEGREES FROM THE 50.4 DEGREE NORMAL ND THE 19TH WARMEST ON RECORD.